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[redacted]

Basic Imagery Interpretation Report

NATIONAL
PHOTOGRAPHIC
INTERPRETATION
CENTER

25X1

[redacted]

MOSCOW/OSTAFYEVO
HF COMMUNICATIONS FACILITY

[redacted]

25X1

DEPLOYED COMM/ELEC/RADAR FACILITIES
USSR
JANUARY 1969

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INSTALLATION OR ACTIVITY NAME					COUNTRY
Moskva/Ostafyevo HF Communications Facility					UR
UTM COORDINATES	GEOGRAPHIC COORDINATES	CATEGORY	BE NUMBER	COMIREX NO.	NIETB NO.
NA	55-30-00N 037-23-00E	[redacted]			

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MAP REFERENCE
ACIC. US Air Target Chart 200, Sheet MO167-5HL, 3d ed, Jul 67, Scale 1:200,000
25X1 (SECRET, [redacted]
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LATEST IMAGERY USED	NEGATION DATE (If required)
[redacted]	NA

ABSTRACT

The Moskva/Ostafyevo HF Communications Facility is one of approximately 30 large HF communications centers surrounding Moscow. This facility is composed of five operations areas and one large support area. The operations area contains 21 double rhombic antennas, eight single rhombic antennas, 46 fishbone antennas, one Vee antenna, and four probable horizontal dipole antenas. The support area contains a total of approximately 130 buildings.

INTRODUCTION

The Moscow/Ostafyevo HF Communications Facility, also known as the Vatutinki Radio Communications Center, is located 18 nautical miles southwest of Moscow at an elevation of 550 feet. The facility contains five operations areas, designated A through E (Figure 1), and one support area secluded in wooded terrain. The five operations areas cover approximately 1,236 acres; the support area covers approximately 172 acres.

Only one large-scale mission of generally poor interpretability partially covers the facility. Because of the limited interpretability of available photography, some antennas may not have been identified. Figures 2 through 5 depict general antenna configurations and approximate relative sizes; however, the drawings are not to scale.

BASIC DESCRIPTION

Operations Areas

Physical Features

Operations Area A (Figure 2) contains 12 double rhombic antennas, six single rhombic antennas, four fishbone antennas, one large centrally located control building, one small control building, two administration buildings, and approximately 21 support buildings.

Operations Area B (Figure 3) contains three double rhombic antennas, 18 fishbone antennas (three of which appear to be in a space-diversified configuration), one large centrally located control building, and approximately 14 support buildings.

Operations Area C (Figure 4) contains one double rhombic antenna, 1 Vee antenna, four probable horizontal dipole antennas, eight fishbone antennas (two of which appear to be in a space-diversified configuration), one large centrally located control building, and ten support buildings.

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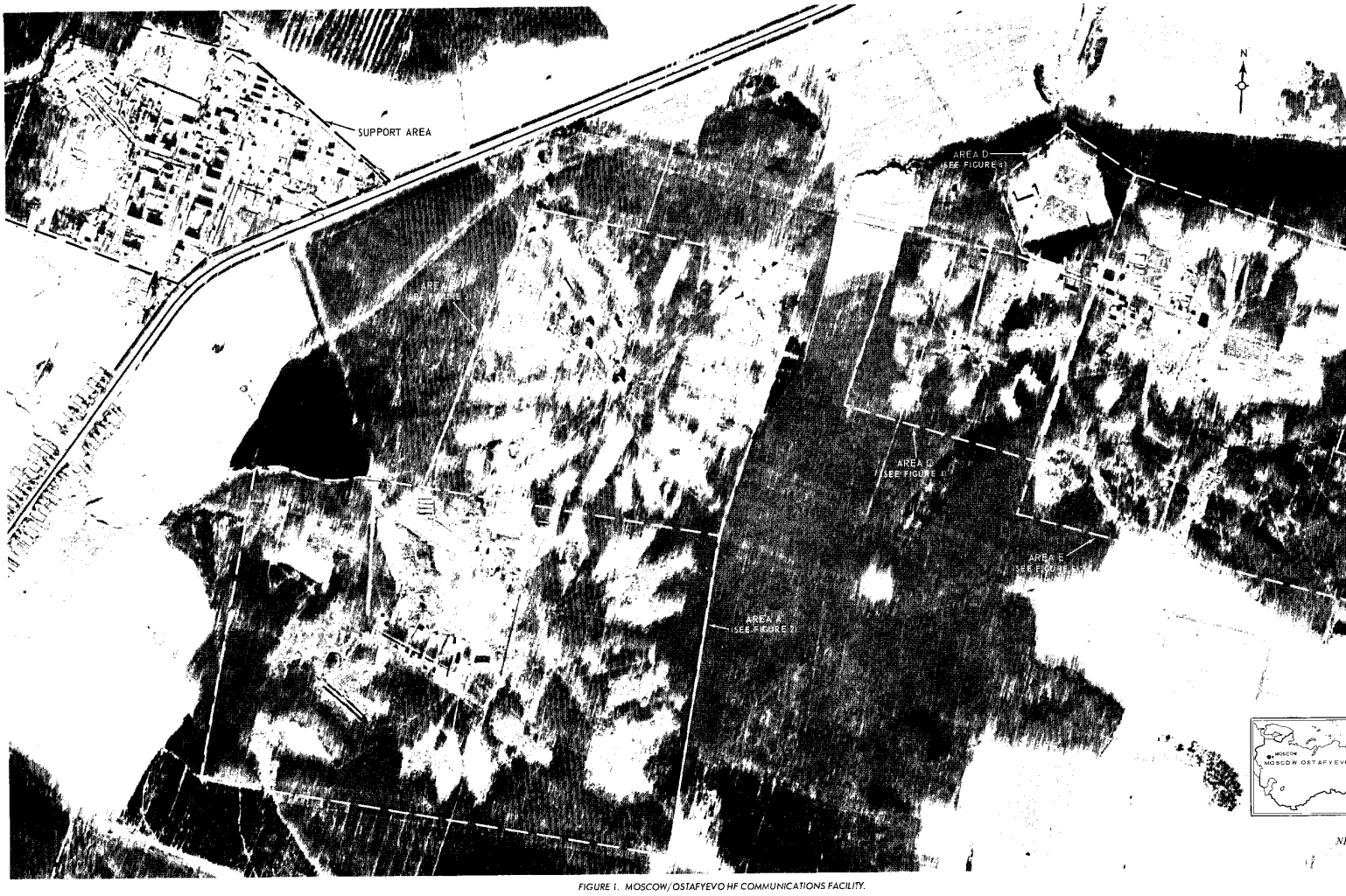

FIGURE 1. MOSCOW/OSTAFYEVO HF COMMUNICATIONS FACILITY.

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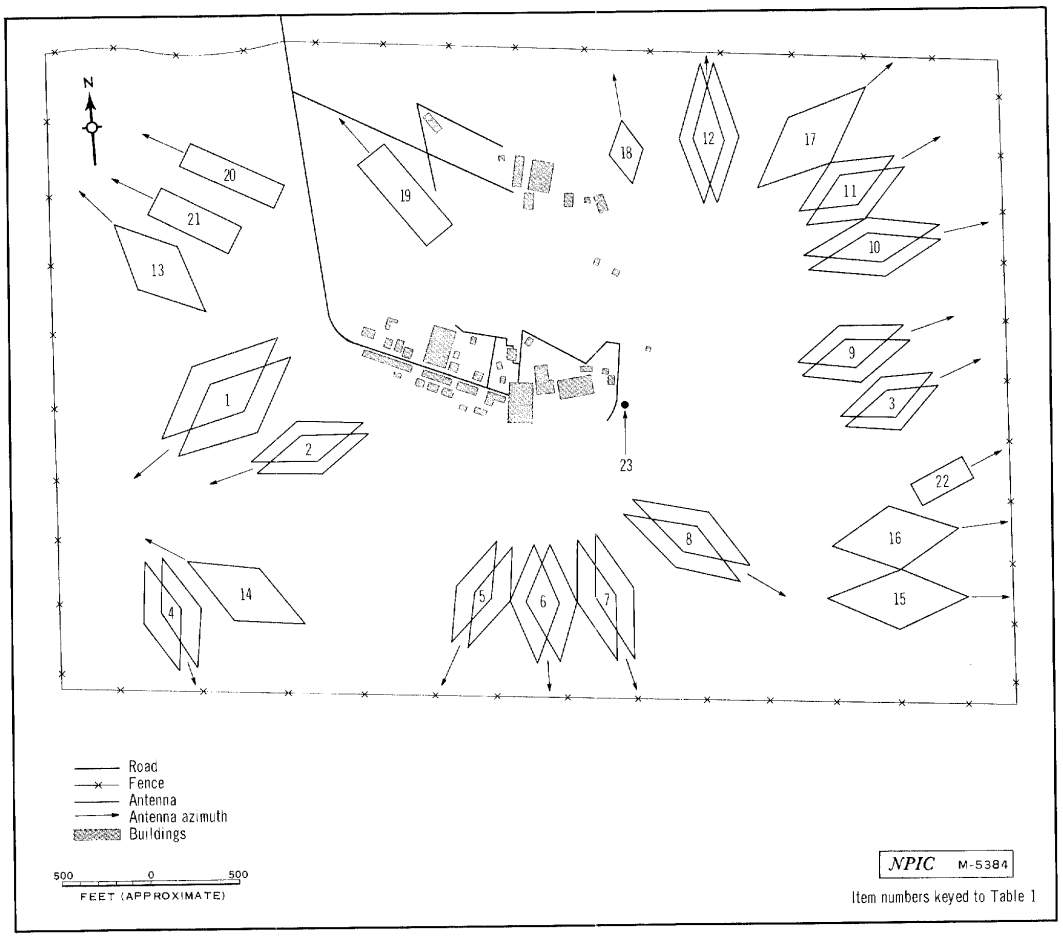

FIGURE 2. OPERATIONS AREA A.

Table 1. Antenna Orientations, Operations Area A (Item numbers keyed to Figure 2).

Antennas No	Type	Azimuths (degrees)	Possible Correspondent
1	D.Rhombic		Ploesti, RU
2	D.Rhombic		Budapest, HU/Ulan Ude, USSR
3	D.Rhombic		Tunis, TU/Vladivostok, USSR
4	D.Rhombic		Stavropol, USSR
5	D.Rhombic		Cairo, EG - Arkhangel'sk, USSR
6	D.Rhombic		Murmansk, USSR
7	D.Rhombic		Stavropol, USSR
8	D.Rhombic		Emba, USSR
9	D.Rhombic		Budapest, HU/Vladivostok, USSR
10	D.Rhombic		Perm. USSR
11	D.Rhombic		Belgrade, YU/Khabarovsk, USSR
12	D.Rhombic		Murmansk, USSR
13	Rhombic		Kapustin Yar, USSR
14	Rhombic		Emba, USSR
15	Rhombic		Karaganda, USSR
16	Rhombic		Tyumen, USSR
17	Rhombic		Bucharest, RU/Petropavlovsk, USSR
18	Rhombic		Murmansk, USSR
19	Fishbone		Kapustin Yar, USSR
20	Fishbone		Alma Ata, USSR
21	Fishbone		Tashkent, USSR
22	Fishbone		Tunis, TU/Vladivostok, USSR
23	U/I tower		Undet

Note: All azimuths are ± 5 degrees.

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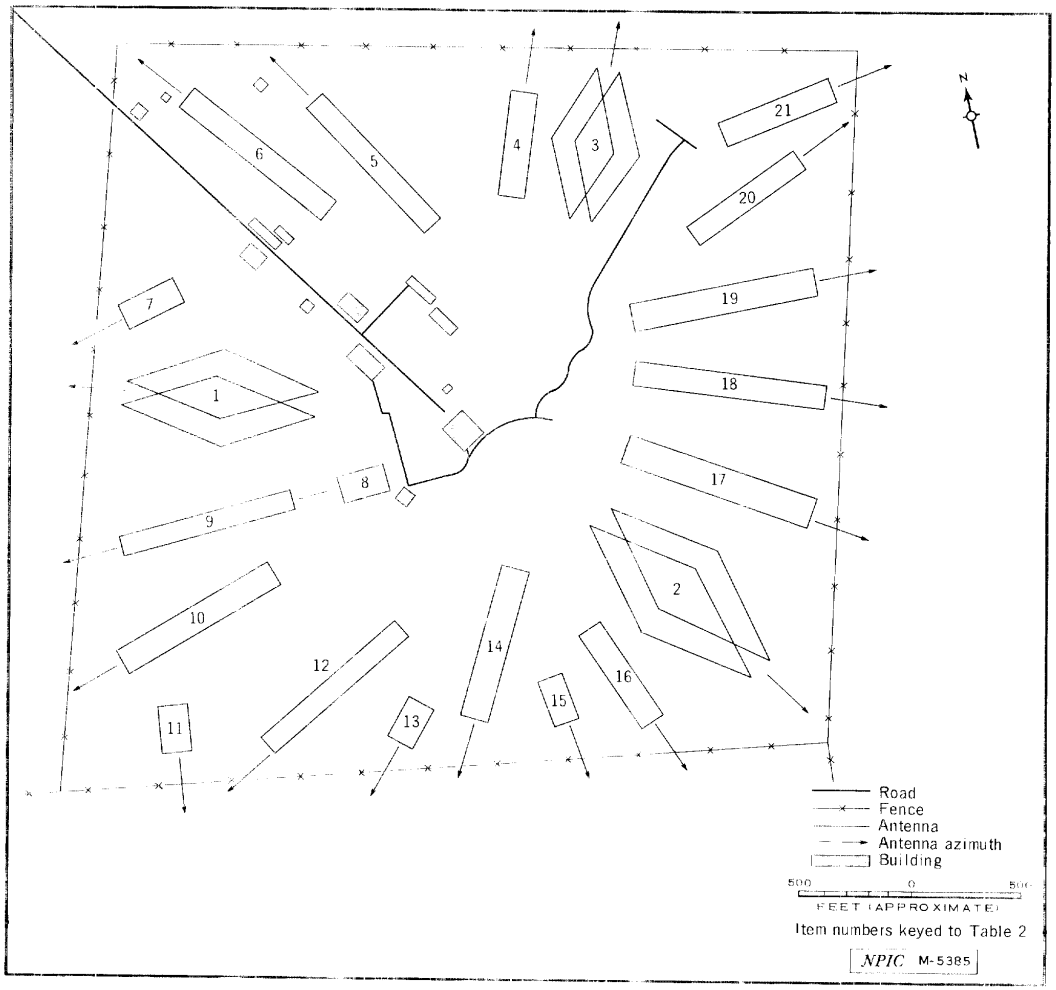

FIGURE 3. OPERATIONS AREA B.

Table 2. Antenna Orientations, Operations Area B
(Item numbers keyed to Figure 3).

Antennas* No	Type	Azimuths (degrees)	Possible Correspondent
1	D.Rhombic		Omsk, USSR
2	D.Rhombic		Kapustin Yar, USSR
3	D.Rhombic		Simferopol, Sevastopol, USSR
4	Fishbone		Aswan, EG/Arkhangelsk, USSR
5	Fishbone		Kapustin Yar, USSR
6	Fishbone		Ashkhabad, USSR
7	Fishbone		Budapest, HU/Ulan Ude, USSR
8	Fishbone		Minsk, Omsk, USSR
9	Fishbone		Perm, USSR
10	Fishbone		Budapest, HU/Vladivostok, USSR
11	Fishbone		Murmansk, USSR
12	Fishbone		Tirane, AL/KIEV, USSR
13	Fishbone		Odessa, USSR
14	Fishbone		Simferopol, Sevastopol, USSR
15	Fishbone		Rostov, USSR
16	Fishbone		Groznyy, USSR
17	Fishbone		Penza, USSR
18	Fishbone		Orsk, USSR
19	Fishbone		Minsk, Omsk, USSR
20	Fishbone		Khabarovsk, USSR
21	Fishbone		Minsk, Omsk, USSR

Note: All azimuths are ± 5 degrees

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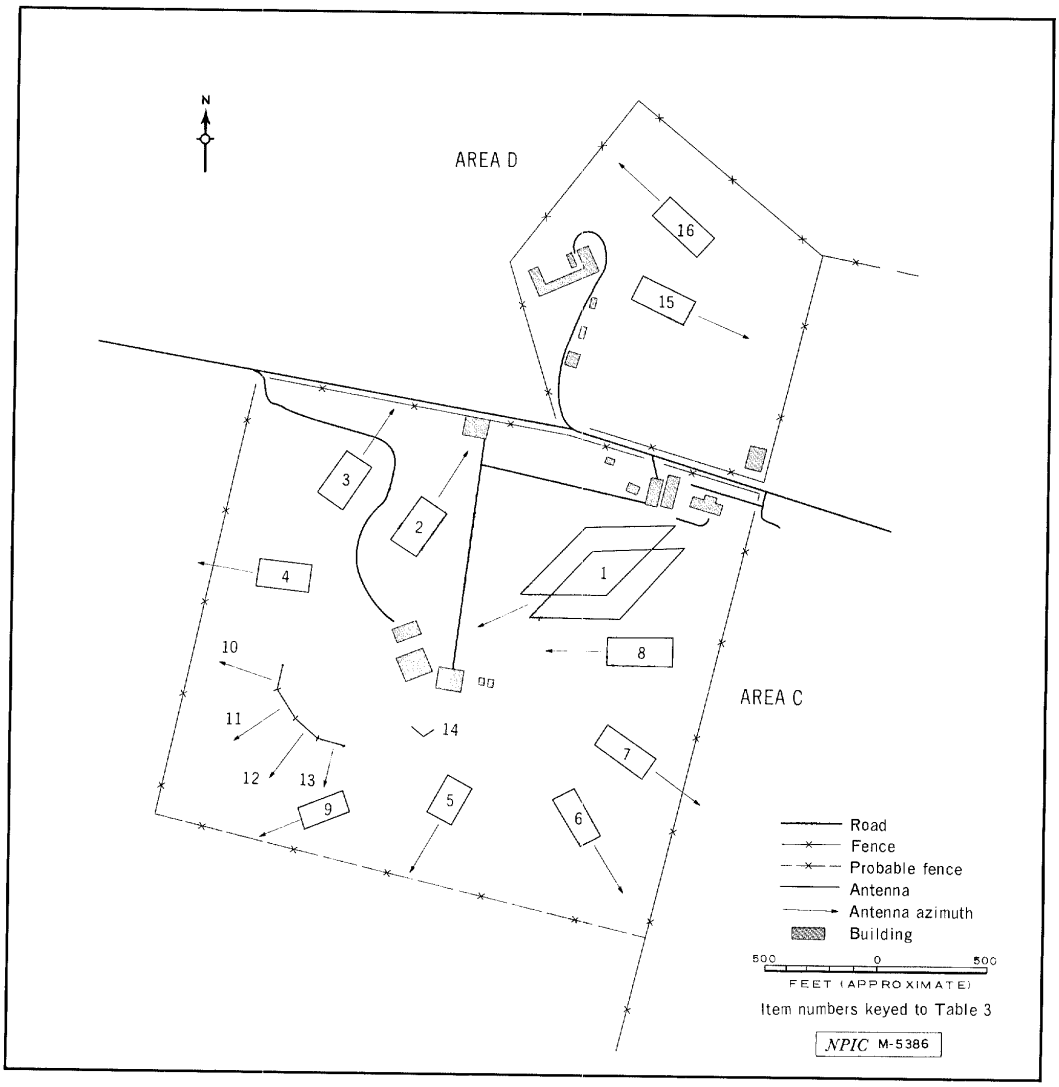

FIGURE 4. OPERATIONS AREAS C AND D.

Table 3. Antenna Orientations, Operations Areas C and D (Item numbers keyed to Figure 4).

Antennas No.	Type	Azimuths (degrees)	Possible Correspondent
1	D.Rhombic		Khabarovsk, USSR
2	Fishbone		Odessa, USSR
3	Fishbone		Nikolayev, USSR
4	Fishbone		Karaganda, USSR
5	Fishbone		Odessa, USSR
6	Fishbone		Kapustin Yar, USSR
7	Fishbone		Mary, USSR
8	Fishbone		Minsk, Omsk, USSR
9	Fishbone		Khabarovsk, USSR
10	Dipole		Orsk, USSR
11	Dipole		Perm, USSR
12	Dipole		Odessa, USSR
13	Dipole		Nikolayev, USSR
14	Vee		Undet
15	Fishbone		Penza, USSR
16	Fishbone		Ashkhabad, USSR

Note: All azimuths are ± 5 degrees.

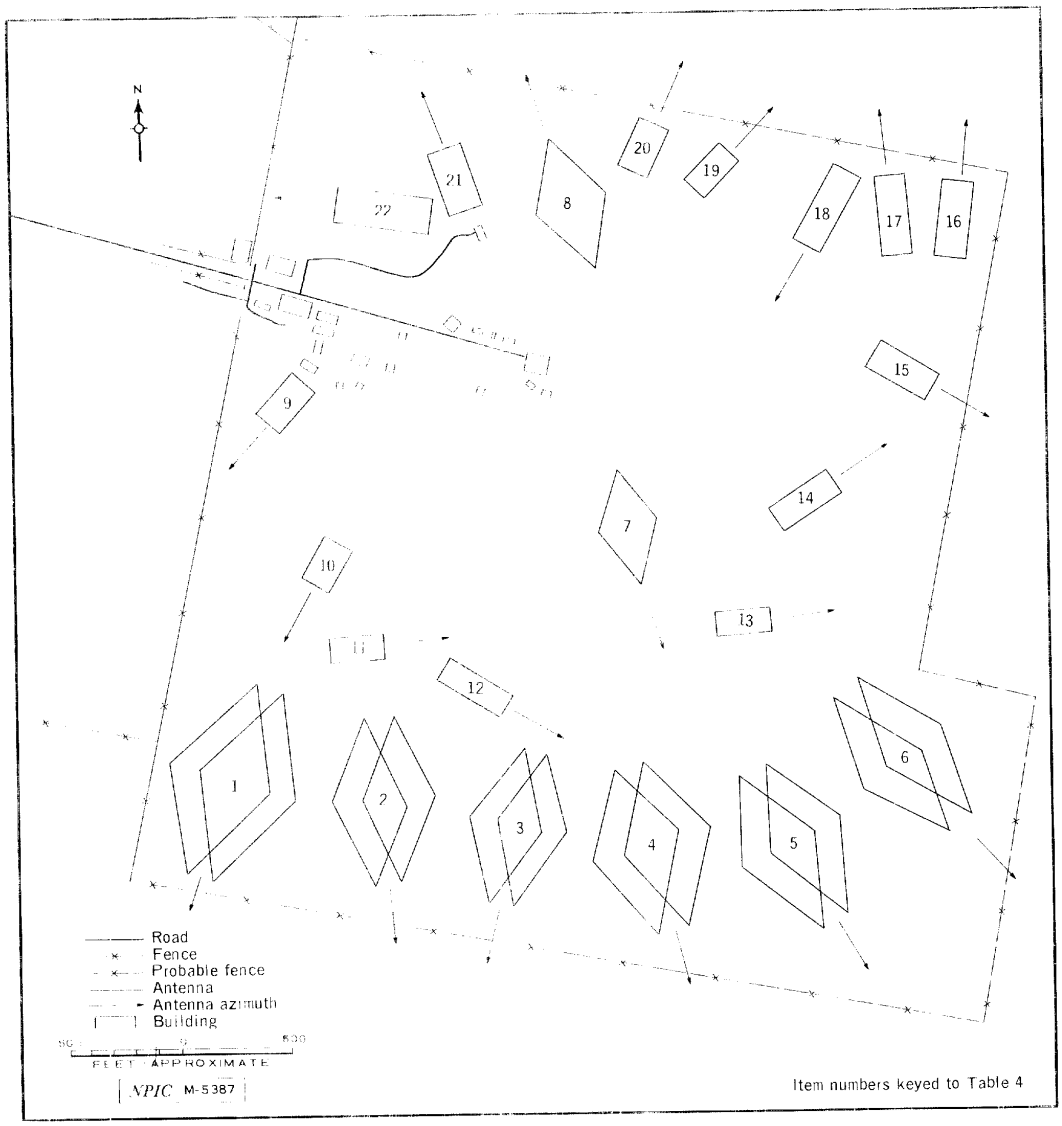

FIGURE 5. OPERATIONS AREA E.

Operations Area D (Figure 4) contains two fishbone antennas, one large control/administration building, and four support buildings.

Operations Area E (Figure 5) contains six double rhombic antennas, two single rhombic antennas, 14 fishbone antennas, one large centrally located control building, three administration buildings, five barracks buildings, and 22 support buildings.

Antenna orientations for the operations areas are given in Tables 1 through 4.

Status and Activity

This communications facility remained virtually unchanged during the period between [redacted] Photography 25X1
25X1 of [redacted] revealed the addition of one double rhombic antenna and two fishbone antennas.

The area surrounding the facility could be used for future expansion.

Table 4. Antenna Orientations, Operations Area E (Item numbers keyed to Figure 5).

Antennas No	Antennas Type	Azimuths (degrees)	Possible Correspondent
1	D.Rhombic	[redacted]	Simferopol, Sevastopol, USSR
2	D.Rhombic		Murmansk, USSR
3	D.Rhombic		Damascus, SY/Amman, JO
4	D.Rhombic		Stavropol, USSR
5	D.Rhombic		Kapustin Yar, USSR
6	D.Rhombic		Ashkhabad, USSR
7	Rhombic		Stavropol, USSR
8	Rhombic		Groznyy, USSR
9	Fishbone		Sofia, BU/Magadan, USSR
10	Fishbone		Odessa, Nikolayev, USSR
11	Fishbone		Minsk, Omsk, USSR
12	Fishbone		Emba, USSR
13	Fishbone		Tyumen, Novosibirsk, USSR
14	Fishbone		Ploesti, RU
15	Fishbone		Tashkent, USSR
16	Fishbone		Aleppo, SY
17	Fishbone		Murmansk, USSR
18	Fishbone		Odessa, Nikolayev, USSR
19	Fishbone		Sofia, BU/Magadan, USSR
20	Fishbone		Odessa, USSR
21	Fishbone		Groznyy, USSR
22	Fishbone		Ashkhabad, USSR

Note: All azimuths are ± 5 degrees.

Support Area

Physical Description

The support area lies just west-northwest of the operations areas and is separated from them by a four-lane highway (Figure 1). This fence-secured support area contains one multiwing headquarters building, five administration buildings, ten barracks buildings, approximately 17 vehicle sheds, one large heating plant, eight warehouse buildings, one athletic field, and approximately 90 support buildings.

Status and Activity

25X1 There has been no apparent change in the support area since [redacted]

REFERENCES

25X1

IMAGERY

MAPS OR CHARTS

25X1

ACIC, US Air Target Chart, Sheet M0167-5HL, 3d ed, Jul 67, Scale 1:200,000 (SECRET)

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REQUIREMENT

COMIREX BR-C- 001-69

NPIC Project 210185

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